SEQUENCE LISTING

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<120> METHOD FOR PRODUCING NOVEL DNA SEQUENCES WITH BIOLOGICAL ACTIVITY

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<141> 1998-08-11

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<151> 1994-09-30

<160> 57

<170> PatentIn Ver. 2.0

<210> 1
<211> 17
<212> DNA
<213> Escherichia coli

<220>
<221> misc_difference
<222> (1)..(9)
<223> Nucleotide at position 9 is n wherein n = a, c, g, or t.

<400> 1
ggaattcnna tcgatcc 17

<210> 2
<211> 17
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (1)..(9)
<223> Nucleotide at position 9 is n wherein n = c, g, or t.

<400> 2

ccgaattcna tcgatcc 17

<210> 3
<211> 11
<212> DNA
<213> Escherichia coli

<400> 3
tgcggtagtt t 11

<210> 4
<211> 26
<212> DNA
<213> Escherichia coli

<400> 4
aattcttggg cgcgcgtcgg cttgat 26

<210> 5
<211> 24
<212> DNA
<213> Escherichia coli

<400> 5
cgatcaagcc gacgcgcgcc caag 24

<210> 6
<211> 20
<212> DNA
<213> Escherichia coli

<400> 6
tttctgggtg catactcttc 20

<210> 7
<211> 26
<212> DNA
<213> Escherichia coli

<400> 7
tttctgggtg agacctcata ctcttc 26

<210> 9
<211> 20
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (1)..(11)
<223> Nucleotide at position 11 is n wherein n = a, c, g, or t.

<400> 9
ggggagatct nagatctggg 20

<210> 9
<211> 10
<212> DNA
<213> Escherichia coli

<400> 9
ggggagatct 10

<210> 10
<211> 47
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (16)..(38)
<223> Nucleotides 16 to 38 are n wherein n = unspecified bases.

<400> 10
ggccgcgagg aacgtnnnnn nnnnnnnnnn nnnnnnnnag tactgct 47

<210> 11
<211> 46
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (18)..(26)
<223> Nucleotides 18 to 26 are n wherein n = unspecified

bases.

<220>
<221> misc_feature
<222> (30)..(35)
<223> Nucleotides 30 to 35 are n wherein n = unspecified bases.

<400> 11
gtcccagga acgttttnnn nnnnnnagcn nnnnnaaagt actgct 46

<210> 12
<211> 47
<212> DNA
<213> Escherichia coli

<400> 12
gtcccgagg aacgttttcc cgtcatgagc atcatcaaag tactgct 47

<210> 13
<211> 57
<212> DNA
<213> Escherichia coli

<400> 13
caagaattct catgtttgac agcttatcat cgataagctt taatgcggta gtttatc 57

<210> 14
<211> 57
<212> DNA
<213> Escherichia coli

<400> 14
gtctataaga gtacaaactg tcgaatagta gctattcgaa attacgccat caaatag 57

<210> 15
<211> 19
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (1)..(15)
<223> Nucleotides 1 to 15 are n wherein n = unspecified

bases.

<400> 15
nnnnnnnnnn nnnnnnnnn 19

<210> 16
<211> 40
<212> DNA
<213> Escherichia coli

<400> 16
[illegible]gtt tgacagctta tcatcgataa gctttaatgc 40

<210> 17
<211> 40
<212> DNA
<213> Escherichia coli

<400> 17
gtg[illegible]agaaac gccgcagggg aaagaactgc gccttgacat 40

<210> 18
<211> 16
<212> DNA
<213> Escherichia coli

<400> 18
gga[illegible]cgccg atacgt 16

<210> 19
<211> 19
<212> DNA
<213> Escherichia coli

<400> 19
[illegible]aggc[illegible]agggg gggcgacat 19

<210> 20
<211> 12
<212> DNA
<213> Escherichia coli

<400> 20

ccccatgcaaa ta 12

<210> 21
<211> 10
<212> DNA
<213> Escherichia coli

<400> 21
tttcgggtcc 10

<210> 22
<211> 22
<212> DNA
<213> Escherichia coli

<400> 22
tgttggcgcc gcgtcggctt ga 22

<210> 23
<211> 18
<212> DNA
<213> Escherichia coli

<400> 23
gccccttttc tcccttga 18

<210> 24
<211> 23
<212> DNA
<213> Escherichia coli

<400> 24
cgtcgcctgcc ttgcgcttgt tcc 23

<210> 25
<211> 25
<212> DNA
<213> Escherichia coli

<400> 25
gcgtgtcggt ccccgtgtct cttca 25

<210> 16
<211> 19
<212> DNA
<213> Escherichia coli

<400> 16
atggacgccc gtgcctttc 19

<210> 17
<211> 19
<212> DNA
<213> Escherichia coli

<400> 17
attcggattg cgggcgtgc 19

<210> 18
<211> 19
<212> DNA
<213> Escherichia coli

<400> 18
cggtggcagg ccgtgtcgg 19

<210> 19
<211> 19
<212> DNA
<213> Escherichia coli

<400> 19
gggcggtctc ccggtcgtt 19

<210> 20
<211> 15
<212> DNA
<213> Escherichia coli

<400> 20
ggcggtgggcg gccgc 15

<210> 21
<211> 19
<212> DNA

<213> Escherichia coli

<400> 31
gcccttgctt tggtggtctt gctcgcccc 29

<210> 32
<211> 26
<212> DNA
<213> Escherichia coli

<400> 32
ttttcggctg gccttcgggc gagagt 26

<210> 33
<211> 19
<212> DNA
<213> Escherichia coli

<400> 33
tatggtgtct gcgcgcccg 19

<210> 34
<211> 21
<212> DNA
<213> Escherichia coli

<400> 34
ttggtcggcg gctggggtcc g 21

<210> 35
<211> 41
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (10)..(32)
<223> Nucleotides 10 to 32 are n wherein n = unspecified bases.

<400> 35
cgccgaggan nnnnnnnnnn nnnnnnnnnn nnagtactgc t 41

<210> 36
<211> 34
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (9)..(31)
<223> Nucleotides 9 to 31 are n wherein n = unspecified bases.

<400> 36
cgagaggaann nnnnnnnnnn nnnnnnnnnn nagt 34

<210> 37
<211> 30
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (5)..(27)
<223> Nucleotides 5 to 27 are n wherein n = unspecified bases.

<400> 37
cttcnnnnnn nnnnnnnnnn nnnnnnntca 30

<210> 38
<211> 37
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (15)..(32)
<223> Nucleotides 15 to 23 and 27 to 32 are n wherein n = unspecified bases.

<400> 38
cgcgacgaacg ttttnnnnnn nnnagcnnnn nnaaagt 37

<210> 39
<211> 35
<212> DNA

<213> Escherichia coli

<220>
<221> misc_feature
<222> (11)..(28)
<223> Nucleotides 11 to 19 and 23 to 28 are n wherein n
= unspecified bases.

<400> 39
ccttgcaaaa nnnnnnnnnt cgnnnnnntt tca 33

<210> 40
<211> 27
<212> DNA
<213> Escherichia coli

<220>
<221> CDS
<222> (1)..(27)

<400> 40
cgt ttt cca atg atg agc act ttc aaa 27
Arg Phe Pro Met Met Ser Thr Phe Lys
1 5

<210> 41
<211> 9
<212> PRT
<213> Escherichia coli

<400> 41
Arg Phe Pro Met Met Ser Thr Phe Lys
1 5

<210> 42
<211> 26
<212> DNA
<213> Escherichia coli

<220>
<221> CDS
<222> (1)..(24)

<400> 42
cgt cat ttt ctg ggt gtc gtt cat ca 26

Arg His Phe Leu Gly Val Val His
1 5

<210> 43
<211> 8
<212> PRT
<213> Escherichia coli

<400> 43
Arg His Phe Leu Gly Val Val His
1 5

<210> 44
<211> 27
<212> DNA
<213> Escherichia coli

<220>
<221> CDS
<222> (1)..(27)

<400> 44
cgt ttt ccc gtc atg agc atc atc aaa 27
Arg Phe Pro Val Met Ser Ile Ile Lys
1 5

<210> 45
<211> 9
<212> PRT
<213> Escherichia coli

<400> 45
Arg Phe Pro Val Met Ser Ile Ile Lys
1 5

<210> 46
<211> 27
<212> DNA
<213> Escherichia coli

<220>
<221> CDS
<222> (1)..(27)

<400> 46
cgt ttt ccg atg ctt agc aca ata aaa 27
Arg Phe Pro Met Leu Ser Thr Ile Lys
1 5

<210> 47
<211> 9
<212> PRT
<213> Escherichia coli

<400> 47
Arg Phe Pro Met Leu Ser Thr Ile Lys
1 5

<210> 48
<211> 27
<212> DNA
<213> Escherichia coli

<220>
<221> CDS
<222> (1)..(27)

<400> 48
cgt ttt gcc ctc aat agc aca ttt aaa 27
Arg Phe Ala Leu Asn Ser Thr Phe Lys
1 5

<210> 49
<211> 9
<212> PRT
<213> Escherichia coli

<400> 49
Arg Phe Ala Leu Asn Ser Thr Phe Lys
1 5

<210> 50
<211> 27
<212> DNA
<213> Escherichia coli

<220>
<221> CDS

<222> (1)..(27)

<400> 50
cgt ttt cct gtg tgt agc acg cat aaa 27
Arg Phe Pro Val Cys Ser Thr His Lys
1 5

<210> 51
<211> 9
<212> PRT
<213> Escherichia coli

<400> 51
Arg Phe Pro Val Cys Ser Thr His Lys
1 5

<210> 52
<211> 27
<212> DNA
<213> Escherichia coli

<220>
<221> CDS
<222> (1)..(27)

<400> 52
cgt ttt cca caa ttg agc acc cac aaa 27
Arg Phe Pro Gln Leu Ser Thr His Lys
1 5

<210> 53
<211> 9
<212> PRT
<213> Escherichia coli

<400> 53
Arg Phe Pro Gln Leu Ser Thr His Lys
1 5

<210> 54
<211> 27
<212> DNA
<213> Escherichia coli

<220>
<221> CDS
<222> (1)..(27)

<400> 54
cgt ttt ccc ctt tct agc cac cgt aaa 27
Arg Phe Pro Leu Ser Ser His Arg Lys
1 5

<210> 55
<211> 9
<212> PRT
<213> Escherichia coli

<400> 55
Arg Phe Pro Leu Ser Ser His Arg Lys
1 5

<210> 56
<211> 27
<212> DNA
<213> Escherichia coli

<220>
<221> CDS
<222> (1)..(27)

<400> 56
cgt ttt ccc ata cta agc cca tct aaa 27
Arg Phe Pro Ile Leu Ser Pro Ser Lys
1 5

<210> 57
<211> 9
<212> PRT
<213> Escherichia coli

<400> 57
Arg Phe Pro Ile Leu Ser Pro Ser Lys
1 5